

## ABSTRACT

The invention relates to a fiber optic security system and control method thereof which, in detail, is embodied by plural channels each comprising an optical transmitter module, an optical transmission line, and an optical receiver module. The invention is easy to install on windows, doors or fences which need to be secured and improves the degree of security by means of operating the plural channels at random sequence.

The present invention takes the effect that the invention makes it possible to cope flexibly with the actual spot to be installed by connecting plural channels each comprising an optical transmitter module, an optical transmission line, and an optical receiver module in order to cope with the dimension of the actual spot to be installed, and by cutting the plastic optical fibers in order to cope with the length of the actual spot to be installed, to maintain conveniently due to the ability of replacing channels one by one, and to reduce maintenance expenses.

Besides, the present invention can make it possible to be seen through and to obtain fine appearance because of using the plastic optical fibers, and to prevent hackings and to improve the degree of security because of checking detection signals non-sequentially.